

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-53

NPDES PERMIT NO. CA0038059

WASTE DISCHARGE REQUIREMENTS FOR:

ALAMEDA COUNTY WATER DISTRICT
AQUIFER RECLAMATION WELLS
FREMONT AND NEWARK, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Alameda County Water District, 38050 Fremont Boulevard, Fremont, (hereinafter called the discharger) submitted a National Pollutant Discharge Elimination System (NPDES) Application for a Permit to Discharge - Short Form C for renewal of its expiring permit (Order No. 74-114).
2. The discharger currently is rehabilitating the Niles Cone Ground Water Basin aquifers by removing saline water which has intruded from San Francisco Bay, a water of the United States. This water is pumped from eight wells in the Fremont-Newark area at a total flow rate of approximately 29 MGD and returned to the Bay as described in the chart below: (The discharge serial and well site numbers are those used in discharger's application.)

<u>Effluent Stream #</u>	<u>Discharge Serial #</u>	<u>Proposed Flow and Location</u>	<u>Well Site</u>
E-1	001	2.9 MGD to Alameda Creek channel at a point located approximately 1/2 mile westerly of the Nimitz Freeway.	#1
E-2	002	2.9 MGD to ACFC&WCD*, Zone 5 flood control channel "K-5" at a point located approximately 1 1/2 mile easterly of the Nimitz Freeway. This flood control channel discharges to Crandall Creek.	#10
E-3	003	5.8 MGD to Zone 5 channel "Line I" at a point located approximately 1/4 mile easterly of the Nimitz Freeway. This channel discharges to Newark Slough.	#5

*Alameda County Flood Control and Water Conservation District

<u>Effluent Stream #</u>	<u>Discharge Serial #</u>	<u>Proposed Flow and Location</u>	<u>Well Site</u>
E-4	004	2.9 MGD to Zone 5 channel "F-1" at a point approximately 1/4 mile westerly of the Nimitz Freeway. This channel discharges to Plummer Creek.	#2
E-5	004	4.1 MGD to Zone 5 channel "F-1" at a point located approximately 3/4 mile easterly of the Nimitz Freeway. This channel discharges to Plummer Creek.	#6
E-6	005	2.9 MGD to Zone 5 channel "B" at a point located approximately 1/2 mile westerly of the Nimitz Freeway. This channel discharges to Mowry Slough.	#3
E-7	005	3.6 MGD to Zone 5 channel "B" at a point located approximately 1 1/2 mile easterly of the Nimitz Freeway. This channel discharges to Mowry Slough.	#7
E-8	005	2.9 MGD to Zone 5 channel "D" at a point located approximately 1/2 mile easterly of the Nimitz Freeway. This channel discharges to Mowry Slough at the same point as "B" above.	#4

3. The Board, in April 1975, adopted a Water Quality Control Plan for San Francisco Bay Basin. This Plan contains water quality objectives for Alameda, Crandall, and Plummer Creeks, Newark and Mowry Sloughs, San Francisco Bay, and other waters of the State.
4. The beneficial uses of San Francisco Bay and contiguous waters are:
 - a. Recreation
 - b. Fish migration and habitat
 - c. Habitat and resting for waterfowl and migratory birds
 - d. Industrial water supply
 - e. Esthetic enjoyment
 - f. Navigation
5. Effluent limitations and toxic effluent standards established pursuant to Sections 208(b), 301, 304, and 307 of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.

6. The Board is not required to comply with the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (California Environmental Quality Act) as this is an NPDES permit and is exempt from such provisions per Section 13389 of the Water Code.
7. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
8. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
9. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from date of hearing provided the Regional Administrator, U. S. Environmental Protection Agency, has no objections.

IT IS HEREBY ORDERED that the Alameda County Water District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. The discharges shall not have a pH of less than 6.5 nor greater than 8.5.

B. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place.
 - a. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - b. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - c. Bottom deposits or aquatic growths;
 - d. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - e. Variation from natural ambient pH by more than 0.5 pH units;
 - f. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. Neither the treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code.
2. This Order includes items 1 and 5 of the attached "Reporting Requirements", dated August 8, 1973.
3. This Order includes items 1, 4, 5, 6, 8, 9, 10, and 11 of the attached "Standard Provisions", dated August 8, 1973.
4. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.
5. This Order is a renewal of Order 74-114 which expires on August 1, 1979, and all sections of this Order shall become effective on that date.
6. This Order expires on August 1, 1984, and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 15, 1979.

FRED H. DIERKER
Executive Officer

Attachments:

Reporting Requirements 8/8/73
Standard Provisions 8/8/73
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

ALAMEDA COUNTY WATER DISTRICT

AQUIFER RECLAMATION WELLS

FREMONT AND NEWARK, ALAMEDA COUNTY

NPDES NO. CA 0038059

ORDER NO. 79-53

CONSISTS OF

PART A , (dated 1/78)

AND

PART B ,

PART B

I. DESCRIPTION OF SAMPLING STATIONS

Each of the 8 effluent streams, E-1 through E-8, shall be sampled at a point between each well and its point of discharge into an adjacent ACFC&WCD flood control channel or into Alameda Creek channel for Station E-1.

II. SCHEDULE OF SAMPLING MEASUREMENT AND ANALYSIS

- A. The schedule of sampling, measurement, and analysis shall be that given as Table I.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-53.
2. Does not include the following paragraphs of Part A:

C.1., C.3., C.4., C.5., D.1., D.3., D.4., E.2.a., E.2.b.,
E.4., F.2., F.3.c., F.3.e., and F.3.g.
3. Does include the following modification of Part A, Paragraph F.3:

"Written reports shall be filed regularly for each calendar
quarter (unless specified otherwise) by the fifteenth day of
the month following the end of each calendar quarter"
4. Is effective on the date shown below.
5. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I

Effective Date June 6, 1979

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES
ALAMEDA COUNTY WATER DISTRICT
NPDES NO. CA0038059 - ORDER NO. 79-53

SAMPLING STATIONS	All Sta.								
TYPE OF SAMPLES	G								
Flow Rate (mgd)	M								
Total Suspended Matter (mg/l)	Q								
pH (Units)	M								
Temperature (°C)	Q								
Chloride (mg/L and lbs/day)	M								

LEGEND FOR TABLE

TYPE OF SAMPLE

G = Grab Sample

FREQUENCY OF SAMPLING

M = One Sample Per Month

Q = Quarterly